

## Specifications

<b>Bandwidth</b>	20 Hz to 20 kHz	
<b>Impedance</b>	600:600 ohms, balanced to unbalanced	
<b>Max Distance</b>	2500 feet	
<b>Common Mode Rejection</b>	Greater than 40 dB	
<b>Nominal Level</b>	1.0 volts	
<b>Cable</b> (Cat 3, Cat 5, Cat 5e, Cat 6, Cat 7 compatible)	UTP (24 gauge or lower solid copper UTP)	Maximum capacitance: 20 pf/foot Impedance: 100 ohms @ 1 MHz Attenuation: 6.6 dB/1000 ft. @ 1 MHz
	BNC	Impedance: 75 ohms @ 1 MHz
<b>Connectors</b>	Four (4) RCA to one (1) RJ45	
<b>Pin Configuration</b>	Channel 1 (L): 4 & 5, pair 1 Channel 1 (R): 1 & 2, pair 2 Channel 2 (L): 3 & 6, pair 3 Channel 2 (R): 7 & 8, pair 4	
<b>Isolation</b>	500V	
<b>Insertion Loss</b>	1 dB	
<b>Environment</b>	Conference, corporate AV, meeting halls, houses of worship, schools, auditoriums, kiosks, monitoring stations	
<b>Temperature</b>	Operating: 32 to 131 F (0 to 55 C) Storage: -4 to 185 F (-20 to 85 C) Humidity: up to 95%	
<b>Enclosure</b>	Black Plastic	
<b>Dimensions</b>	2.6" x 2.6" x 1.1" (6.6 x 6.6 x 2.8 centimeters)	
<b>Weight</b>	70 grams (2.5 oz)	
<b>Warranty</b>	2 Years	

\*Specifications subject to change without notice



2222 Pleasant View Road, Suite #1  
Middleton, WI 53562  
608-831-0880  
FAX 608-831-1833  
intelix@intelix.com  
www.intelix.com

## A4 Dual Stereo Audio Balun Installation Guide



### Overview

The Intelix A4 balun passively transmits four mono or dual stereo analog audio signals via Cat 5 unshielded twisted pair (UTP) cable, such as Cat 5. Used in pairs, the A4 transmits analog audio in either direction up to 2500 feet, providing a low-cost, versatile cabling solution which uses a building's existing structured cabling system

### Applications

The A4 is ideal for corporate AV, houses of worship, schools, auditoriums, and virtually any other situation involving structured audio distribution

## Installation

**Caution:** Do not attempt to open the balun housing. There are no user-serviceable parts inside the A4. Opening the unit will void your warranty.

To install an A4 balun, perform the following steps:

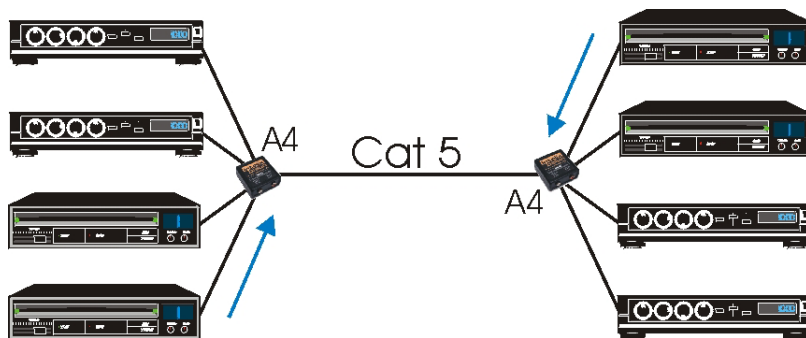
1. Turn off power and disconnect the audio equipment by following the manufacturer's instructions.
2. Make certain that outlets and cross connects to which you will connect the A4 are configured properly and labeled appropriately to identify the circuit.

**Caution:** Do not connect the A4 to a telecommunication outlet wired to unrelated equipment. Making such a connection may damage the equipment and/or balun. Please ensure all wiring is "straight-through."

3. Verify the desired twisted pairs are not being used for other LAN or telephony equipment.
4. Connect the RCA inputs from the source equipment to one of the two baluns. Two A4's are needed--one at each end of the run--and are interchangeable.

**Caution:** Do not mount the balun over equipment ventilation openings. Covering the openings may cause the equipment to overheat.

5. Connect a 4-pair Cat 5 cable from the RJ45 8-position modular jack of the A4 to the twisted pair cabling of the building.
6. Connect the second balun's RCA inputs to the destination equipment.
7. Connect a 4-pair Cat 5 cable from the RJ45 8-position modular jack of the A4 to the appropriate modular wall outlet.
8. Power on the source and destination equipment and test for correct operation.

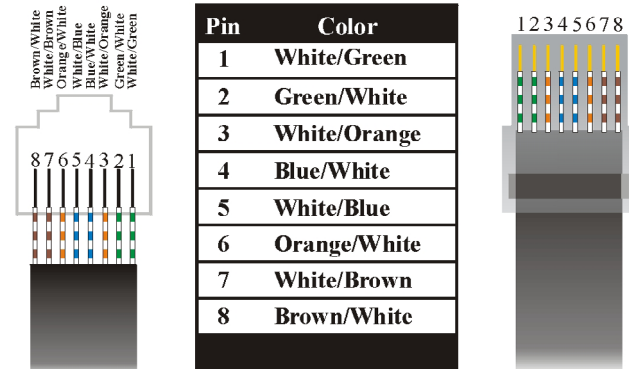


## Troubleshooting

If your equipment malfunctions with A4 baluns in place, follow the troubleshooting procedures below:

1. Perform diagnostics on your audio equipment by following the manufacturer's instructions.
2. Check all the connections and the structured cabling system. Verify the RJ45 crimp pattern conforms to either EIA/TIA 568A or 568B standards, as shown below.
3. Check pin configuration.
4. The maximum operational distances over which the A4 can be transmitted is dependant on the equipment used and cable. Ensure that the maximum recommended operational distances have not been exceeded.
5. Check that only twisted pair patch cords are being used.
6. Replace the A4 balun with another A4 that is known to be working.
7. If you still cannot diagnose the problem, call Intelix for support.

### EIA/TIA 568A Crimp Pattern Standard



### EIA/TIA 568B Crimp Pattern Standard

